## **Abstract**

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Process for preparing high-concentration gaseous formaldehyde having a molar  $CH_2O$ :  $H_2O$  ratio of  $\geq 0.6$  from an aqueous formaldehyde solution by evaporation of at least part of the solution, in which the aqueous formaldehyde solution is heated to a vaporization temperature T and the gas phase formed is taken off, wherein the evaporation temperature T obeys the relationship:

$$T [°C] \ge T'_{min} [°C]$$

where 
$$T'_{min}(c) = A + B \times (c/100) + C \times (c/100)^2 + D \times (c/100)^3$$
  
15 and  
 $A = +68.759, B = +124.77, C = -12.851, D = -10.095,$ 

where c is the instantaneous CH<sub>2</sub>O content of the aqueous formaldehyde solution during the evaporation in percent by weight and is from 20 to 99% by weight.